

# Claims

[c1] What is claimed is:

1.A method of controlling the force of a sled motor in an optical disk drive, the method comprising:  
providing a predetermined force to the sled motor after the optical disk drive is powered on;  
measuring a duration of an pickup head module moving a predetermined distance when the predetermined force is provided;  
obtaining a correction coefficient according to the measured duration and an ideal duration; and  
correcting the force of the sled motor according to the correction coefficient.

[c2] 2.The method of claim 1 wherein the optical disk drive is a slim-type optical disk drive.

[c3] 3.The method of claim 1 wherein the sled motor is a DC motor.

[c4] 4.The method of claim 1 wherein the predetermined distance is less than or equal to an allowable movement range of the pickup head module.

- [c5] 5.The method of claim 1 wherein the correction coefficient is a ratio of the measured duration and the ideal duration.
- [c6] 6.The method of claim 1 wherein the force of the sled motor is multiplied by the correction coefficient to correct the force.
- [c7] 7. A method of controlling the force of a sled motor in an optical disk drive, the method comprising:  
providing a predetermined force to the sled motor after the optical disk drive is powered on;  
recording a first time and a second time when an pickup head module reaches the first position and the second position respectively;  
obtaining a measured duration according to the first time and the second time;  
obtaining a correction coefficient according to the measured duration and an ideal duration; and  
correcting the force of the sled motor according to the correction coefficient.
- [c8] 8.The method of claim 7 wherein the optical disk drive is a slim-type optical disk drive.
- [c9] 9.The method of claim 7 wherein the sled motor is a DC motor.

- [c10] 10.The method of claim 7 wherein the distance between the first position and the second position is less than or equal to an allowable movement range of the pickup head module.
- [c11] 11.The method of claim 7 wherein the correction coefficient is a ratio of the measured duration and the ideal duration.
- [c12] 12.The method of claim 7 wherein the force of the sled motor is multiplied by the correction coefficient to correct the force.